

Jordan Lake Demonstration Project



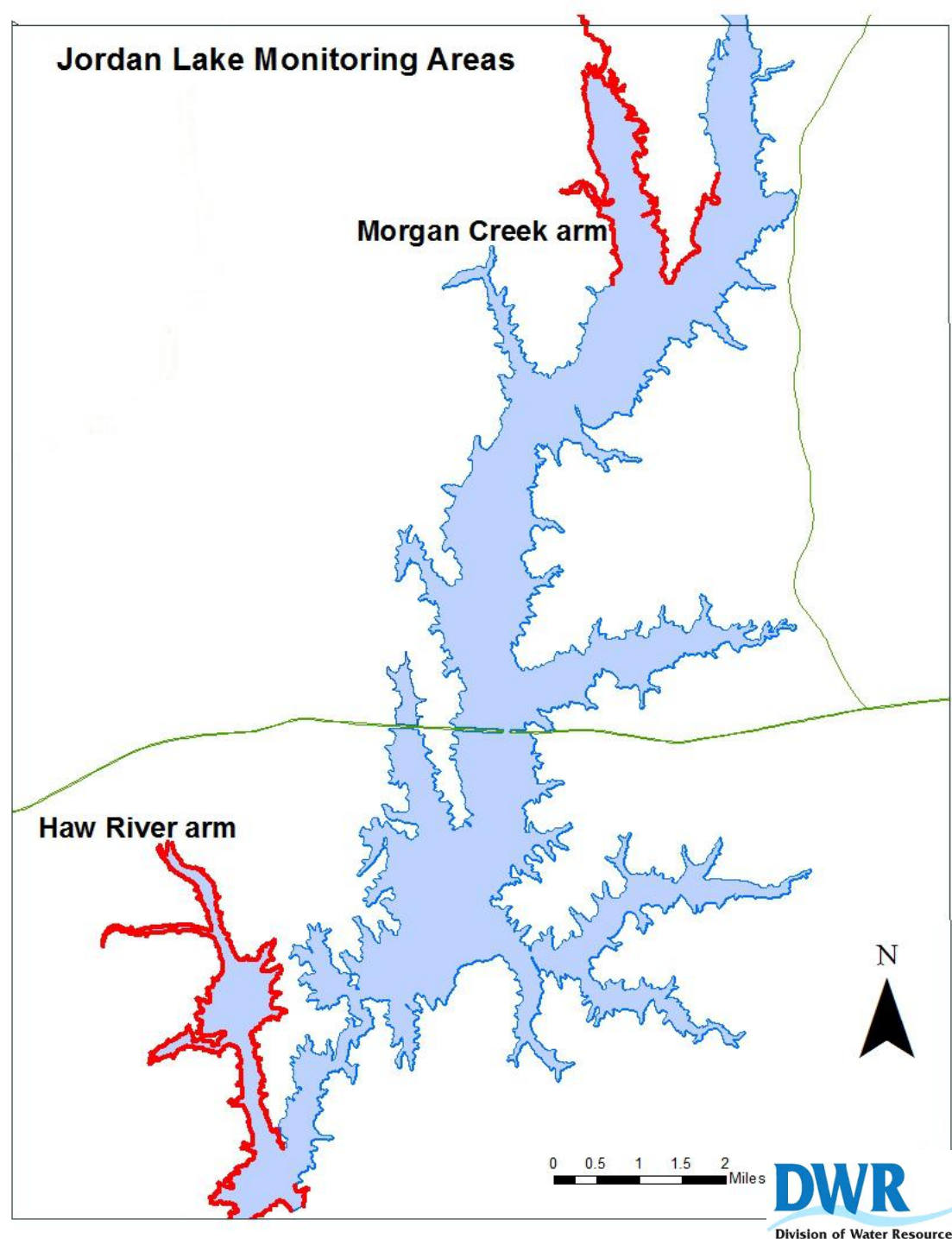
Water Quality Monitoring to Evaluate
Aeration Technology

Jordan Lake Monitoring

Demonstration
Project monitoring
includes 2 primary
areas of Jordan Lake

Morgan Creek arm

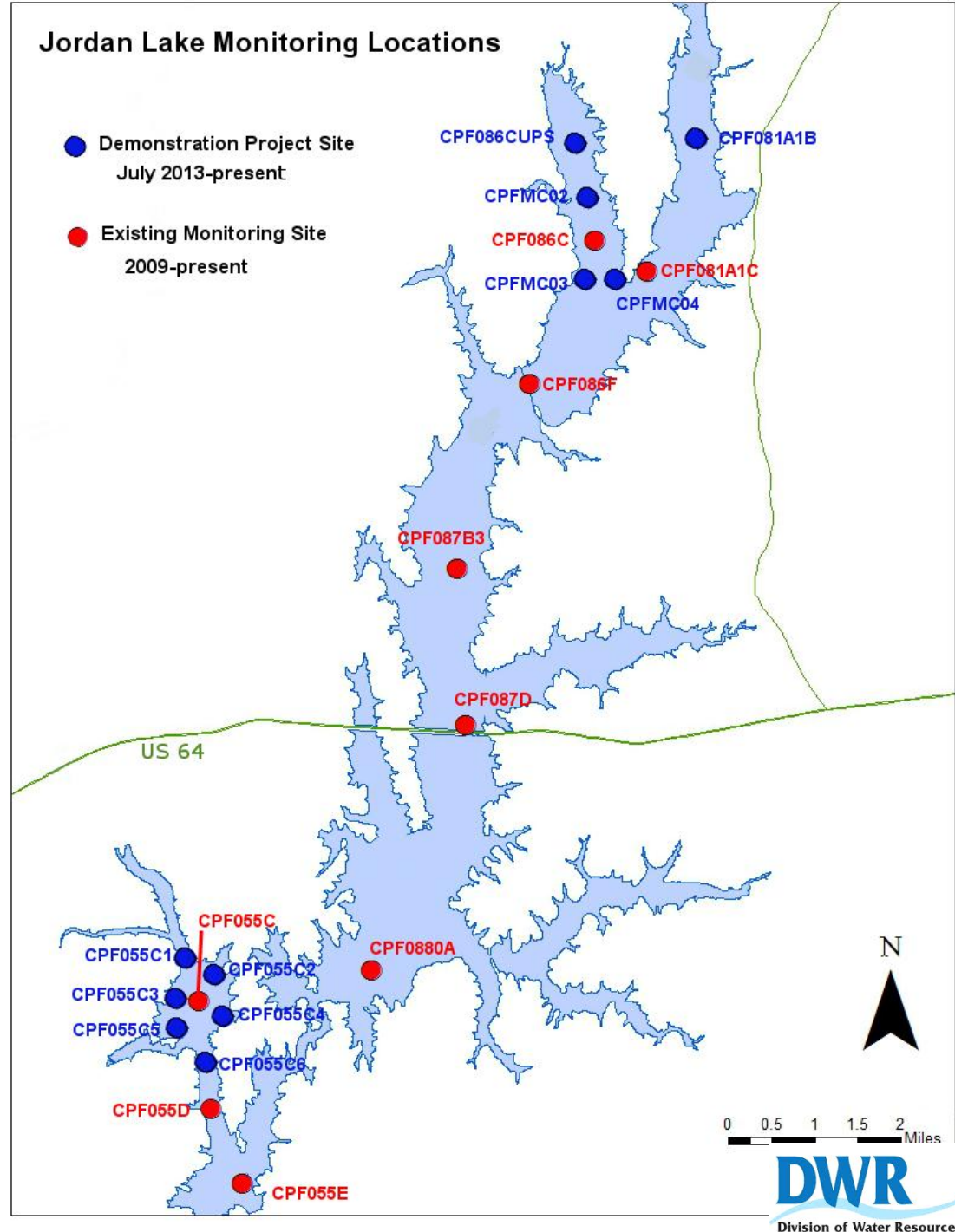
Haw River arm



Monitoring Sites

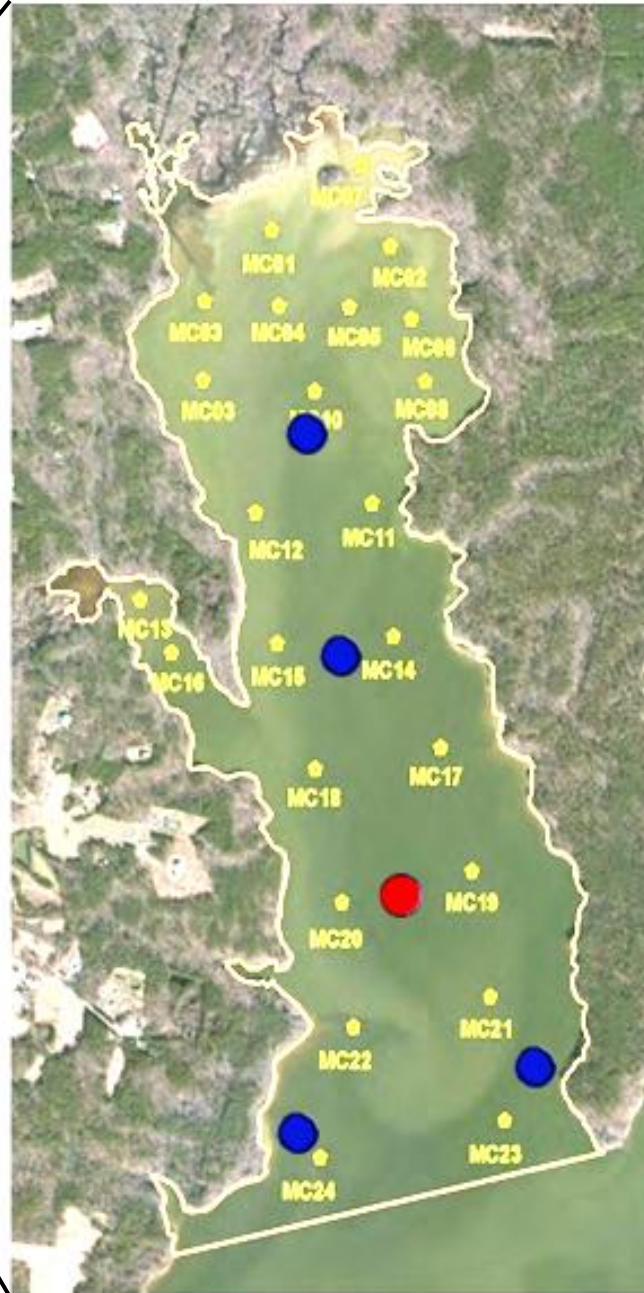
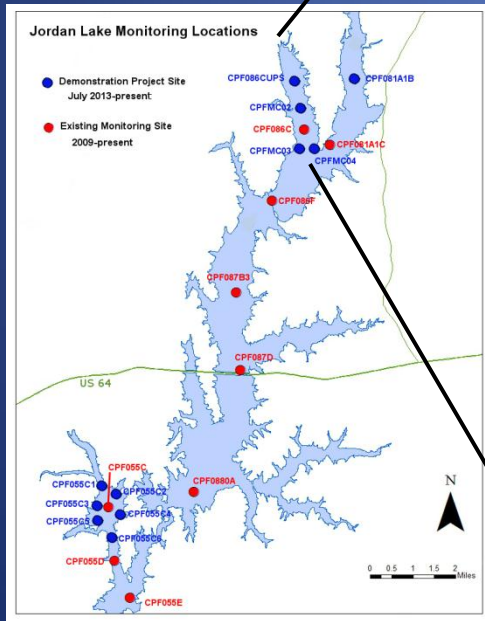
9 Historic locations

11 Project locations



Monitoring Sites

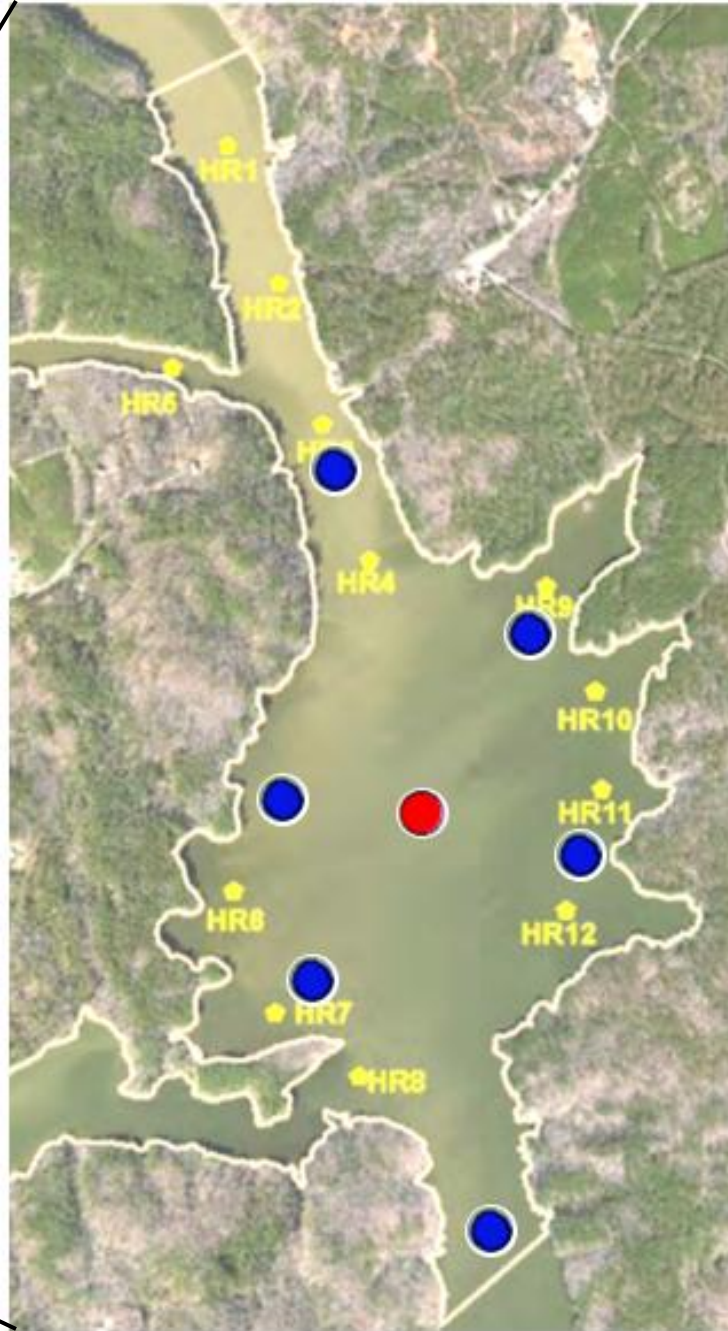
Morgan Creek Arm



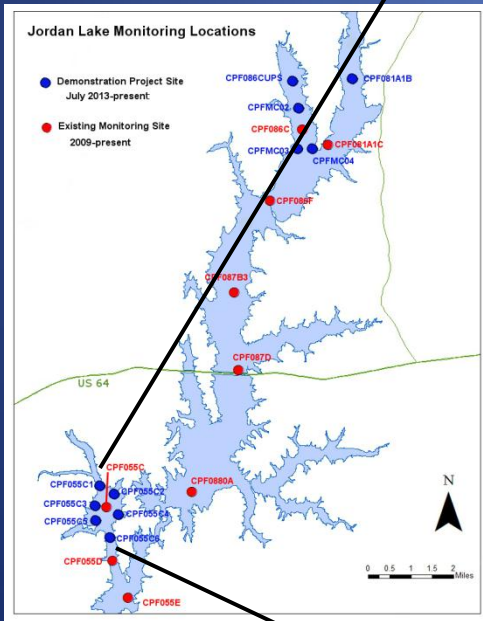
- Historic Site
- Project Site
- SolarBee Unit

Monitoring Sites

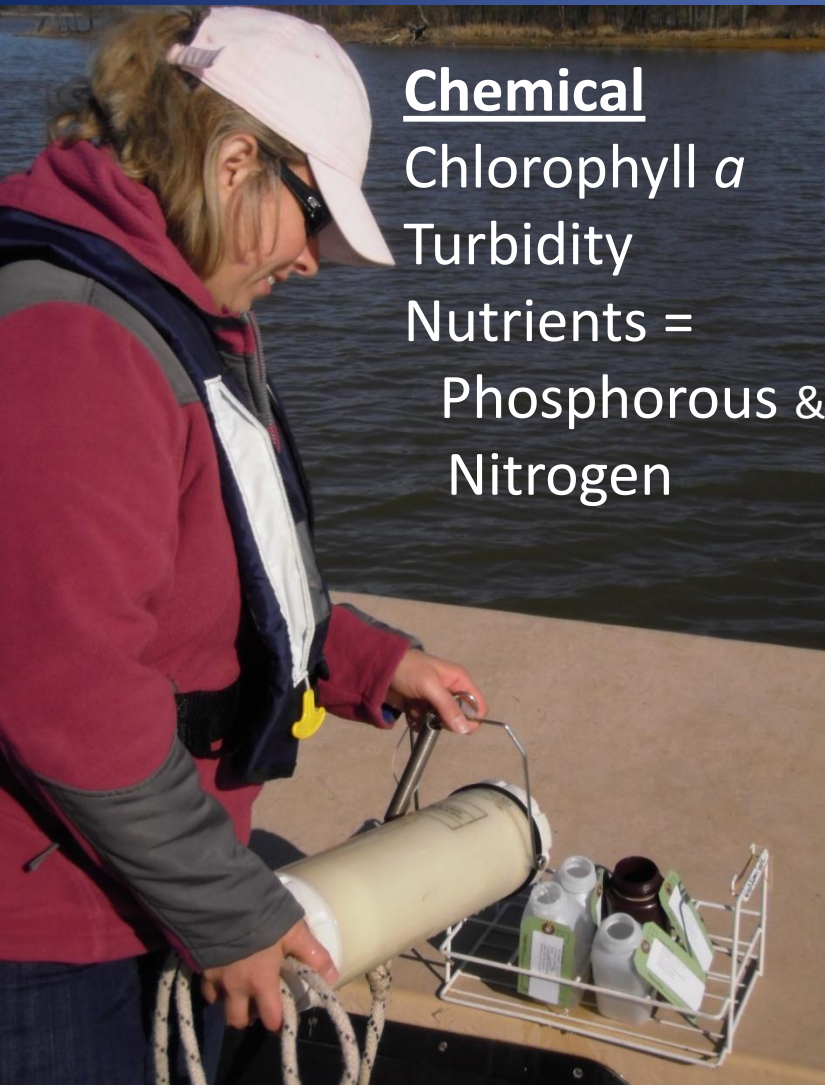
Haw River Arm



-  Historic Site
-  Project Site
-  SolarBee Unit



Parameters Sampled Per Station



Chemical

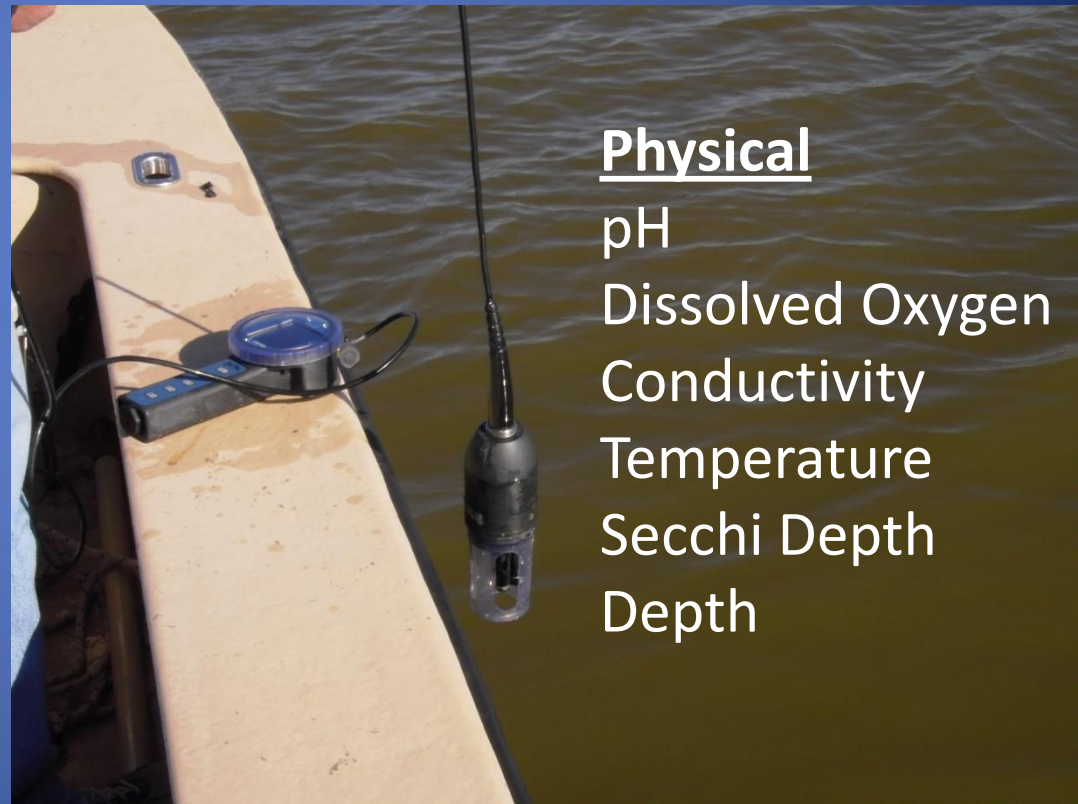
Chlorophyll *a*

Turbidity

Nutrients =

Phosphorous &

Nitrogen



Physical

pH

Dissolved Oxygen

Conductivity

Temperature

Secchi Depth

Depth

4 staff in 2 boats will perform sample collections

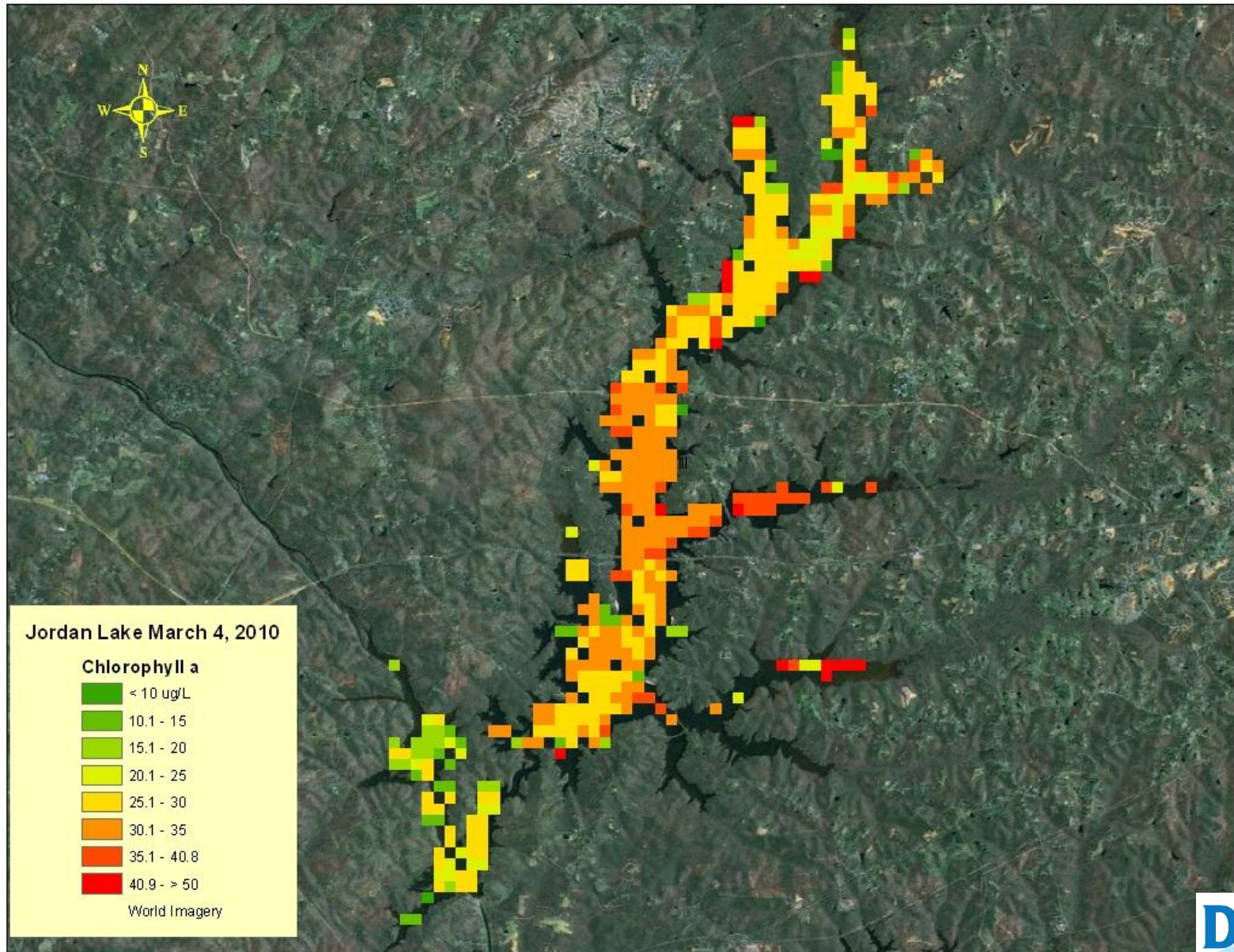
Monitoring Frequency

Sampling - once per month alongside historic Jordan Lake monitoring sites through November 2016 – two growing seasons.

Visits for maintenance - once per week to verify that circulators are in working order.

Monthly sampling at Demonstration Project sites has been ongoing since July 2013.

Remote Sensing



Project Activities:



- Monthly
 - Field Sample Collection
 - Laboratory Sample Analysis
 - Strict Data Quality Review
 - Publishing of Data to DWR Website
- End of Study: Report on Results

Contact Information

Tom Reeder
Director, NC Division of Water Resources
919-707-9027
tom.reeder@ncdenr.gov

